

## Vermont EMS Intramuscular (IM) Injection Vaccine Training for EMTs

The ***Vermont EMS Intramuscular (IM) Injection Vaccine Training for EMTs*** is comprised of two separate elements that all EMTs must complete **before** utilizing the new Immunization Protocol. The first element is a presentation available on CenterLearn EMS entitled “**IM Training BLS VTEMS 2021.**” The presentation can be viewed individually or as a group. The second element is a psychomotor competency designed to be completed at the service or district level. Services are required to document completion of both elements of the training program for any EMT who intends to administer vaccines by IM injection. AEMTs and Paramedics may also watch this training video to refresh skills.

### Psychomotor Training:

- This document outlines the supplies, objectives and procedure for the practical training of the ***Vermont EMS Intramuscular (IM) Injection Vaccine Training for EMTs***. To become credentialed to administer IM vaccines EMTs must view the “**IM Training BLS VTEMS 2021**” presentation on **CenterLearn**, then successfully complete the psychomotor training.
- The psychomotor training must be overseen by a service or district training officer and competency in the procedure must be certified by an EMS instructor / coordinator, EMS district training officer, EMS district medical advisor, EMS service medical director, or nurse educator.
- Practical evolutions may be repeated as many times as necessary to obtain competency. Facilitators should not approve candidates until they feel comfortable that the EMT can safely and competently administer vaccines via IM injection without supervision.
- Training Materials Required:
  - **1 mL syringes**
    - Services may use expired and/or previously opened clean syringes and needles (for training only).
  - **1” safety needle – 22-25 gauge**
    - Services may use expired and/or previously opened clean syringes and needles (for training only).
  - **Vial of medication**
    - Services may use expired or previously opened medication vials (for training only). 10mL vials of normal saline offer a low cost alternative if expired medications are not available.
  - **Injection trainer or suitable alternative to perform IM injections.**
    - If an injection manikin trainer is not available, consider using fruit such as an orange or a lemon to simulate the intramuscular injection.
  - **Alcohol prep pads**
  - **Sharps disposal container**
  - **Gloves, mask and safety glasses**
- Psychomotor Objectives:
  - List the supplies necessary to complete administration of vaccine via intramuscular (IM) injection.
  - Demonstrate the ability to correctly withdraw medication from a vial.
  - Demonstrate the ability to prepare a proper dose of medication.
  - Using an injection trainer or suitable alternative, demonstrate safe technique when administering an intramuscular injection.

**Vermont EMS Intramuscular (IM) Injection Vaccine  
Training for EMTs Psychomotor Training Check Sheet**

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Evaluator: \_\_\_\_\_

EMS Agency: \_\_\_\_\_

	Skill/Knowledge Area	Yes	No	Comments
Prep	1. Identifies and gathers all necessary supplies			
	2. Dons appropriate personal protective equipment (gloves, mask, eye-protection)			
Ready	3. Attaches needle to syringe, maintaining aseptic technique			
	4. Removes cap from medication vial			
	5. Cleans top of vial with alcohol prep pad			
	6. Inserts needle into vaccine vial			
	7. Withdraws appropriate volume of medication			
	8. Removes air bubbles from syringe			
	9. Expels any additional air and fluid to reach correct volume			
Check	10. Confirms correct medication a. Specific vaccine prescribed			
	11. Confirms the correct dose has been selected a. 0.3 mL or 0.5 mL depending on vaccine type			
	12. Visually inspects syringe for correct volume a. Confirm no air bubbles			
Inject	13. Identifies proper site for injection (Deltoid*)			
	14. Cleanse site with alcohol wide using circular motion			
	15. Flattens skin with thumb and forefinger			
	16. Inserts needle quickly at 90° angle to skin			
	17. Stabilize needle and depresses plunger slowly to inject			
	18. Removes syringe and activates needle safety mechanism			
	19. Disposes needle and syringe in proper sharps container			
	20. Explains procedure if needle becomes contaminated after drawing medication and before injection (attach a new sterile needle)			

\* If an analog is being used for injection, the EMT must identify the correct site on a person and then may complete following steps on the analog.

- EMT successfully and individually demonstrated competency in the above tasks and is competent to administer vaccines via IM injection without supervision.
- EMT **did not** demonstrate competency to administer vaccines via IM injection without supervision, additional training is required.

Evaluator Signature: \_\_\_\_\_